



METEOROLOGICAL DATA REPORT

14823AT LANCE Missile Number 4570 Round Number 347-AST 9 May 1980

by

White Sands Meteorological Team

CELEGI

ATMOSPHERIC SCIENCES LABORATORY WHITE SANDS MISSILE RANGE, NEW MEXICO

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20. ABSTRACT (Continue on reverse side If recessary	and identify by black number)	
- Meteorological data gathered for Number 4570, Round Number 347-AS	the launching of Tare presented in	14843AT LANCE, Missile tabular form.
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INTRODUCTION

14823AT LANCE	_, Missile Number	4570	, Round Number	347-AST
was launched from LC-39				
at 1308 MDT on 9				
1300 MDT				
	DISCUS	8100		
Meteorological data wer	e recorded and redu	iced by the	While Sands Meteor	ological
Team. Atmospheric Scien	ces Laboratory (ASL	.), White Sa	nds Missile Range.	New Mexico
The data were obtained	by the following me	thods:		
1. Observations				
a. Surface				
	ard surface obs <mark>erva</mark>			
(°C), relative humidity	, dew point (°C), d	density (gm/	$^{ m m}^3$), Wind directio	n and speed
and cloud cover were ma	de at the LC-39	Me	et site at T-O min	utes.
(2)				
	Monit	tor of wind	speed and direction	n from one
anemometer was also pro	vided in the launch	icontrol ro	on.	
b. Upper Air				
(1) Low 1	evel wind dat <mark>a we</mark> re	obtaine' f	rom PARTS T-9 piba	l observa-
tion at:				

SITE AND ALTITUDE

LC-39 2220 Meters

LC-39 3660 Meters

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to as high as possible feet in 500-feet increments.

SITE AND TIME

WSD 1300 MDT

SMR 1300 MDT

HMN 1300 MDT

TABLE 1. Surface Observations taken at 1308 MDT, 9 May 1980, at LC-39, 14823AT LANCE, Missile Number 4570, Round Number 347-AST.

ELEVATION	4063.75	rT/MSL
PRESSURE	873.2	MBS
TEMPERATURE	25,0	nc
RELATIVE HUMIDITY	20	
DEW POINT	0.5	°c
DENSITY	1016	GM/M ³
WIND SPEED	10	ктѕ
WIND DIRECTION	270	DEGREES
CLOUD COVER	1	ci

PILOT BALLOON MEASURED WIND DATA

TABLE 2									
RELEASED	FROM LC-3	9		DATE	9 Ma	y 1980		_TIME	1250 MDT
RELEASED	POINT COO	RDINATES	s (W	stm) x=	530938.82	<u> </u>	186564.96		4063.75
NOTE: W	IND DIRECTI	ONS ARE	REF	TERENCED T	O TRUE NOR	TH.			
HEIGHTS A	ARE METERS	AGL XX	OR	FEET AGL	. <u></u> .				
HEIGHT AGL	DIRECTION DEGREES	SPEED KTS		HEIGHT AGL	DIRECTION DIGRETS	TSPEED A	HETTON	Francisco Francisco	OH SPEED KTS
SFC	270	10		1860	231	18	, ======		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
60	MISG	MISG		1920	240	 . 17		:	
120	250	12		1980	224	12	!	• • •	1
180	254	13		2040	225	12	# *** ** ** ** ** ** ** ** ** ** ** ** *		
240	261	18		2100	238	10	1		
300	254	18		2160	249	11		· · · · ·	
360	254	18		2220	230	13			
420	238	13				•			
480	237	12			†	i			!
540	237	12				1			
600	233	14							
660	243	15			1	1			i
720	238	13				1	1		
780	227	15			1				
840	219	12		1		<u> </u>		and the second	
900	208	12			*************************************				
960	[.	15			†	1			
1020	199	18			1				
1080	199	14		· · · · · · · · · · · · · · · · · · ·	†				
1140	218	18)					
1200	210	22		;	,	1	1		
1260	211	21			!	i again i a ann an			
1320	210	18_			1			•	
1380	221	21				1			
1440	223	18					1 " " " " "		
1500	223	18			!				
1560	222	20							
1620	231	20					1		
1680	229	20				Ţ	!	· • • · · · ·	
1740	238	18				1		· ·	
1800	235	19							

PILOT BALLOON MEASURED WIND DATA

TABLE	3							
RELEASED	FROM	LC-39	1ΤΛ6	9 M	lay 1980		TIME	1330 MDT
RELEASED	POINT	COORDINATES	(NSTM) X	530,938.82	γ .	186,564.96	. 11	4063.75
NOTE: W	IND DIR	ECIIONS ARE	REFERENCED T	O TRUE NORTH	·			
HEIGHTS	ARE MST	ERS AGL XX	OR FEET AGE					
HEIGHT	DIRECT	10N SPEED	THAT	DIRECTION	SPELO ((HUTGH)	Diei CTI	ON TEPLED T
AGL	DE GRL1	S kis	AGL	DLGREFS	KIS	AGL	DEGREE	, <u> KTS</u>
SFC	290	17	1860	236	18			
60	267	19	1920	237	17.		.	
120	240	21	1980	237	17		.	
180	235	19	2040	237	17			
240	244	20	2100	239	20			1
300-	240	20	2160	239	21			
360	233	20	2220	235	26			
420	229	18	2280	247	24			
480	231	18	2340	243	13			
540	233	18	2400	244	13			
600	233	18	2460	264	17			
660	239	17	2520	248	18	1		!
720	231	15	2580	249	17			
780	238	16	2640	247	18			
840	240	;5	2700	258	24			
900	228	17	2760	250	28			
960	234	18	2820	250	32			
1020	229	17	2880	249	35			
1080	229	17	2940	249	35			
1140	255	18	3000	247	35	1		
1200	246	15	3060	247	35			
1260	243	15	3120	250	35			
1320	249	13	3180	250	35			
1380	236	13	3240	248	32		• • • • •	
1440	235	15	3300	253	31			-
1500	233	17	3360	254	23		an use agencies a 1	
1560	233	15	3420	252	28			
1620	243	13	3480	251	29			
1680	232	15	3540	250	30			
1740	236	12	3600	249	31			
1800	235	12	3660	240	33	1	••• •••	

STATION ALIITUDE 3989.00 FEET MSL 9 MAY BO 1300 MUT ASCENSION NO. 257

SIGNIFICANT LEVEL DATA 130020257 WHITE SANDS

TABLE 4

GEODETIC COUNDINATES 32.40043 LAT LEG 106.37033 LON DEG

PRESSURE	GEOMETRIC	TEMPE	TEMPERATURE	REL. HUM
	AL TITUDE	AIR	DEWPUINT	PERCENT
MILLIBARS	MSL FEET	DEGREES	CENTIGRADE	
875.1	3989.0	26.1	.7	19.0
50.	823	'n	J.	•
C	021	9•9	-6.7	38.0
4.649	12215.2	1.2	•	46.0
Ġ	75.	•	-7.7	•
27.	_	-1.6		62.0
-	13491.8	-2.4	-12.1	
4.2	13678.1	-2.5	-21.5	•
86.4	14796.1	•	-25.4	16.0
71.4	15557.4)·†-	-20.0	•
0.0	18976.3	-10.6	-30.6	•
67.0	_	-14.2	-27°u	•
0.00		•	-36.0	-
80.0		-26.8	-36.1	•
359.6	27018.0	•	ล่	26.0
33.4	•	•		•
20.6		-36.0	₽. ₩₽.	•
0.00	•	•		
9 · 09	_	•		
55.2		•		
50.0	•	-47.5		
44.2	•			
26.3	37357.4	•		
0.00	_	ċ		
9.5	_	•		
0.0	-	ċ		
8.9	_	52.		
ė	٠.	;		
+ • •				*
9·9	_	-66.1		
0.0	54346.8	Õ		
	20.	Č		
3.6	956	90.		
7.8	396.	-63.2		
•	1538.	3		
58.6	2	60.		
ċ	8446.			
30.0		-52.0		
'n	459	-45.7		
	96			

L MSL	
FEET	
3989.00 FEET 1300 MOT	75
ALIITUDE 80	11 140 - 257
STATION ALITTUDE	ASCENS10

SIGNIFICANT LEVEL DATA 1300020257 WHITE SANDS

LEODETIC COOKUINALES 32.40043 LAT LIEG 106.37033 LOH LEG

TABLE 4 (continued)

TEMPERATURE AIR DEWPOINT DEGREES CENTIONAUE PRESSURE GFOMETHIC ALTITUDE MILLIBARS MSL FELT

REL . NUM. PERCENT

-43.3 20.0 88070.9 16.6 92245.1

UPPER AIR UMTA	1300020257	WHITE SANDS	TABLE 5
	STAIJON ALTITUDE 3989.00 FEET MSL	9 MAY 80 1300 MDT	ASCE1,510h NO. 257

JEODETIC COURLIANTES 52-40043 EAT LLO 106-37033 LOH CEG

INUEX OF HEFHACT1012	1.000254	1.000254	1.000252	1.6002.10			1.000239		1.000251	1.0002.3		•			1.600210	1.000207			•						1.000109		1.0001.5			•0001		•	1.060148	1.000140	1.0001.4	1.000142	9,1000.1	1.0001.7	1.000135	
SPEED NNOTS	12.0												10.8	0	0	10.2	0	12.1	14.1	ສ.	5.42	32.9	36.5	35.5	31.8	30.0	29.1	29.3	31.4	33.6	36.1	37.6	37.9	38.2	8	39.4	39.6	40.5	39.9	39.5
WIND DAIA UIRECTION S DEGREES(IN) N	280.0							•					210.6	210.0	540.4	254.5	2<0.1	0.400	259.5	2.7.7	255.7	7.057	0.752	4.00X	255.9	₹•/c×	202.1	209.4	272.7	2/4.0	274.3	273.4	271.7	40402	501.05	4.003	2.003	7•002	207.3	5.002
SPEED OF SOUND NNOIS	6.479	674.8	672.3	670.1	60.8°4	600.7	0.500				658.2	6:000	654.7	653.0	651.3	649.7	648.1	C•010	9.449	643.0	641.5	641.1			4.650		_	_	634.8	633		631	630.1			0,0.1	0.4.0	0,5.1	0,1,0	
DEMSITY S GW/CUBIC METER	1015.9	1015.7	1005.5	h•h66	981.0	0.696	950.5	6.446	932.2	920.4	908.7	897.1	885.0	874.0	863.0	851.2	839.5	828.0	817.0	800.0	2.467	780.3	766.6	155.6	740.7	723.9	717.4	706-1	0.569	684.•0	673.3	662.7	652+2	641.9	631∙8	622.11	4.710	3.	593.7	•
REL.HUM. PERCENT	19.0	19.1	22.1	24.5	25.8	27.1	28.4	29.7	31.0	32.3	33.6	34.9	36.2	37.5	39.2	41.2	43.1	45.1	53.9	200	40.4	19.0	17.3	16.0	16.0	16.1	16.3	16.4	16.6	16.7	16.9	17.2	21.3	ŝ	6	31.0	31.0	31.0	31.0	31.0
TEMPERATURE R DEWPOINT EES CENTIGRADE	.7	.7	6•	.7	٥.	± • •	-1.0	-1.7	-2.4	-3•1	-3.9	L++-	-5-5	-6.3	-7.0	-7.6	-8- 20-8-	ສ•ພ- ເຄ	•	F	-12.4	-22.6	-24.3	*25.6	-26.0	7-56-1	-27.4	-28.0	28	-59.5	-30.5	-30.8	-59.4	-24.5	•	-28.3	1, 107-	-311.5	-31.0	-32.7
TEMP AIR DEGREES	26.1	26.1	23.8	21.9	20.4	19.0	17.5	16.0	14.6	13.1	11.6	10.2	8.7	7.2	5.8	۲. د	J. 1	Q • T	? '	C•[-	12.4	-2.5	6 .	4.5.	0.5°	* (-5.8	9.9	17.8	1.8-	ę.	-10.6	-111.7	-12.7		-15.0	-10.2	-17.5	-18.7	-20.0
PRESSURE MILLIBARS	875.1	874.8	859.7	9.448	859.5	814.7	800.2	785.9	771.8	158.1	744.5	731.2	718.2	705.3	692.5	9.629	667.0	7.40	# · / # 0	c•0ca	** 2 To	000	1995	585	572.1	261.6	8.050	1.040	756.	217.4	\$00c	499.5	489.7	460•0	4.70.6	461.2	451.9	442.7	433.B	425.0
GEUMETHIC ALTITUDE MSL FEET	3989.0	41,00.0	4500.0	20000	5500.0	0.0000	6500.0	7000.0	7500.0	0.000a	u200•0		0.000.6	10000	10500.0	11000.0	11500.0	12000-0	12500.0	13000.0	13500-3	14000.0	14500.0	0.000cT	15500.0	100001	10500.0	17000.0	17500.7	181100.0	10500.0	19000.0	19500.0	200002	20202	21000.0	21:,"0.0	551100.5	2.00.022	2-00052

WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION AN, LES. ×

STATION ALTITUDE 3989.00 FEET MSL 9 may b0 1300 MDT ASCENSION NO. 257

UPPER AIR DATA 1300020257 WHITE SANDS

08.0DETIC COORDINALES 32.40043 LAT SEG 106.37033 LOA (EG

TABLE 5 (continued)

	•																																							•
INDEX OF REFRACTION	1.000150	1.0001.8	1.000120	1.000124	1.0001,2		1.000117	1.00001	1.000113	1.000111	1.001119	1.000103	1.600100	1.000164	1.000142	1.069161	1.000659	1.000077	1.00005	1.000004	1.00002	1.000001	1 • 00000: 9	1.000087	1.000005	1 • 00·10c3	1.000002	1.0000.0	1.000679		1.000675		1.000072	1.000070	1.0000c.B	1.00000.6	1.00000.5	1.00000.3	1.00000.2	1.00000.1
1A SPEED KHOTS	39.3	40.1	41.1	43.6	46.1	8.84	51.4	53.B	56.0	56.0	56.0	54.5	51.8	₽•6ħ	48.6	47.6	47.2	47.0	47.9	49.2	54.7	0.09	59.5	29.0	58.0	57.3	58•8	60.3	58.3	55.4	52.6	51.3	50.1	52.0	25.2	٠	65.2	64.7	62.3	57.0
WIND DATA DIRECTION S DEGREES(14) A	270.5	272.3	273.9	712.5	270.3	27.7.0	277.5	2,072	275.0	274.4	273.7	273.0	7.4.7	4.47	274.7	275.0	7.017	275.2	275.0	274.8	273.5	272.5	271.1	20,3.6	5002	7 - 402	201.5	7.652	258·2	257.u	257.0	257.3	257.0	557.4	257.1	257.5	1.167	257.0	257.5	5,00,7
SPELD OF SOUND KNOTS	4.810	610.9	615.3	613.B	612.2	611.0	610.1	5.600	607.5	6.500	6(14.2	6.5110	600.ó	596.4	5,7.1	5,565	593.7	2.769	540.6	5,9.1	50.7.0	540·1	585.0	565.0	565.0	583.9	502.4	56,0.9	579.8			-			5e1.2	561.0	5e.1.7	501.0	561.2	5°0°5
DENSITY S GM/CUBIC METER	575.7	6.995	550.5	549.5	6.048	531.7	522.1	512.7	504.6	4964	488•8	481.1	473.0	466.1	458.7	451.4	443.8	436.1	428.5	421.1	413.6	406.7	399.0	389.4	381.1	373.7	367.1	360.6	353.6	345.2	337.0	329.0	321.2	313.5	305.9	298.5	291.5	584.5	276.1	273.1
REL.HUM. PERCENT	31.0	31.0	31.0	31.8	32.7	31.5	28.8	26.1	54.9	23.8	22.6	22.0	22.0	17.4**	10.1**	2.8*																								
TEMPERATURE R DEWPOINT EES CENTIGRADE	-33+8	-34.9	-36.0	-36.9	-37.8	-39.0	-40.5	-45.0	-43.6	-45.2	-46.8	-48.2	2.04-	-52.7	-58.2	-68·B																								
TEMP AIR Degrees	-21.2	-22.5	-23.7	-25.0	-26.3	-27.2	-27.9	-28.7	-30.0	-31.3	-32.6	-34.0	-35.5	-36.9	-38-3	-39.7	6.04-	-42.1	-43.3	-44.5	-45.6	-46.8	-47.7	1.7.7	1.7.7	-48.5	1.64-	-50.9	-51.7	-51.5	-51.4	-51.2	-51.1	-50.9	-50.6	20	-50.2	-50-3	-50.6	-51.2
PRESSURE MILLIBARS	410.4	408.0	394·B	391.5	363.4	575.4	307.6	359.9	352.3	344.8	337.5	330.3	323.2	516.2	309.3	302.5	295.8	249.2	282.7	276.4	270.2	204.5	258.2	252.4	246.6	241.0	235.5	230 • 1	554·B	519.6	214.5	209.6	204.7	200.0	195.4	190.9	186.5	162.3	178.1	173.9
GEOMETHIC ALIITUDE MSL FEET	23500.0	24000.0	24500.0	J.000cz	25,000.0	200002	26500.0	27000.0	27,000.0	0.00m2	20500.0	29000ec	29500.n	300000	30500·0	31000.0	31500·n	3-001176	52500.0	330,00.0	335,00.0	24°00°6	345,00.0	35000.0	35500.0	30000°	30200.0	370,00.0	37500.0	38000.9	30500.0	39000.0	39500.0	40000	40500.0	41000.0	41500·¢	ٕ00'124	425,00.0	Ů•00 ⁰ €+

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTLAPOLATION.

600ETIC COMUINATES 32.40043 LAF LEG	106.37033 LON LEU		INDEX	OF REFRACTION	1.600000	1.60003.8	1.000057	1.004056	1.6000.5	1.000054	1.00000.5	1.3000:2	1.00001	1.00000.0	1.000049	1.000048	1.0000.1	1.00000	7	1.000004	-	-	1.000.1	~ `	_	1.000009	1.0000.38	1+400037	1 • 00000 ;0	1 • 100010.5	1.600054	1.0000.3	1.0000.1	050000-1	700001	6.300001	6.0000.1	1 • UUUU • I	1.6000.	1.6000.7	1.0000.0	1.0000	1 • 0000 5	1.00004
0E0DE1	106		T.A	SPEED	50.2	47.1	6.94	46.9	47.7	48.5	48.1	47.2	46.2	45.7	45.1	44.7	ជ• - ១- ១	∵・ なる	#3.E	3.M3	3.00 s	3.5		O • # # #	2.C.	9.9	47.3	48.2	49.2	オ・ハエ・	7.04	0.24	0 · 0 · 0	0.02	0.0	2.71	r • • • • • • • • • • • • • • • • • • •	α·	C • C]	16.3	17.4	19.3	21.4	22·8
		(F	WIND DATA	DIRECTION DEGREES(IN)	255.3	254.0	254.0	554.9	6.447	4. pg2	254.0	** tiQ%	254.1	5.002	253.0	255.5	0.000	2525	7-092	202.2	25.2.4 2.5.4.4	6.7CZ	252.0	20.70.7	#•20 2	755.0	251.0	7.102	7.002	V - (10.2	7.0.7	0.0.7	10 TO	1.667	2.52	0.012	2010	0.4.77	0.262	2.0.5	7.0.7	7. pc. 7	250.7	204.1
ATA SZ SZ		(continued)	SPEED OF	SOUND KNO TS	579.5	578.5	577.2	575.8	574.5	573.1	5/2.0	570.8	569.7	9.20°C	5.7.3	5.6.3	50,5.1	54.4.0	5c4.8	56.1.0	5°0°5	0.00G	# 6 GG	5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00	3	557.B	557.5	55.7.5	c./^^	0.00	15%	200	200	1000	0000	0 4 0 3 1	700	7.4.0	T • # • • • • • • • • • • • • • • • • •	20400	5.5.0	2°4°6	5000	50.5.B
UPPER AIR DATA 1300020257 WHITE SAHUS		TABLE 5 (c		6M/CUBIC METER	267.5	262.2	257.3	252.4	247.7	243.0	238.2	233.4	220.6	224.2	219.7	215.2	210∙8	506.b	202.4	196.5	7.61	189.7	3.00 T	1.161	0.77	172.9	166.0	Joan I	160.5	G-061	h-1c1	7.0.7	T - T - T	0.001		1.101	1000	1001	1.221	119.5	110.0	113.6	110.6	107.0
			REL.HUM.	PERCENT																																								
T MSL			TEMPERATURE	DEWPOINT CENTIGRADE	•																																							
39.00 FEET 3ga wat			TEMP	AIR Degrees	-51.9	-52.6	-53.6	-54.7	-55.7	-56.7	-57.6	-58.4	-59.3	-60.1	-61.0	-61.8	-62.7	-63.6	-64.5	-65.3	7.99-	000	600	67.7		1.00-	10891	000	001	100-	500	60.5	160.5	4.1.5	4.64-	-63.0	-63.63	6.4.4	4.4.4	000	1020	153.6	1.29	-62.3
5	140 · 25/		PRESSURE	MILLIUARS	169.9	160.0	102.1	156.3	154.6	151.0	147.4	143.9	# · O † I	13/01	133.0	130.5	127.4	124.3			1100		-		•	0.101	7.00	900	0.00	7.00	20.4	9.00	63.5	410	74.3	77.4	75.5	73.7	5.17	(11)	7.0	9 9 9	•	7.69
STATION ALT	ASCENSION NO.		GEONE TRIC	ACIITODE MSC FEET	43500.0	U•000++	44500.0	#PH00+	455,00.0	40000	#6500·ū	4.7000.	0.005/4	0.00(184	0.00554	0.0000	0.000,64	6.00mg	ບ•ຄູ _{ນຕ} ຸດຊ	0.0016	0.00510	0.00025	0.00026		0.00000		0.00049	o odica	0.00000		27,000.0	57500.0	28000°C	**************************************	5.000.60	595,000	0.000.00	0.000000	0.000.10	2.000 TO	0.00010	0.00000	0.000.70	0.0000

UPPER AIR DATA	1500020257	WHITE SAUCS
	ALITIODE 3949.00 FEET MSL	1300 MDT
	AL LITUDE	0,0

32.40043 LAI LEG 106.37033 LON LEG SE ODETTE COOKUTHATES • nutre:22 .00000 ¢¹n(inij• . 10000.3 . • 0000c. 3 0 30HO0. • 50000.0 .00000 910000 0100000 010000 e number 9 •00000• • (:0001) etouau. .300015 •000018 .0000 *10005 C10000-•1000014 41.000.14 •100000• • (JUD) • • (10 th t) 12 -100001->1000CJ+ .000010 .600010 6,00000. • 00000. •0000 100001 • 0.0000 \$100000 11000.11 110009 • CU40. .0000 Lionno. HEFKAL T101. INULX 21.1 19.5 8446664 446644 446644 4.5 50000 50000 50000 2.8 3.3 .. 5.9 6.7 P) 4.1 1.7 SPEED NIJOTS WIND DATA UINECTIO., 36005 272.0 4.5 301.0 219.5 30.5 75.5 2.701 212.0 207.7 205.4 251.0 248.1 197.1 100.4 111.0 15.7 4.401 3.00.7 33507 31.9.4 20102 16.1 4.001 4110 216. 269.0 1.601 1.66 1.00.7 TABLE 5 (continued) SPEED OF 6.4,15 500.4 507.1 5c8.4 568.7 564.4 509.0 509.d 570.3 570.8 571.2 571.7 572.2 572.6 574.0 574.5 575.0 575.9 570.4 570.8 577.3 579.8 56.0.96 562.9 51,4.4 5.4.5 569.4 4.016 570.2 579.2 563.0 50,501 573.1 **5.1**16 50,4.1 575.0 SOULTS 87.0 57.0 24.5 52.0 102.0 50.5 0.64 2.44 GM/CUBIC METER 94.3 85.5 75.4 71.6 69.8 68.1 60.0 50.5 55.6 51.5 99.3 96.7 A1.5 79.3 73.5 4.99 64.7 63.1 61.5 47.7 46.5 43.1 REL.HUM. DENSITY PERCENT GM/CUBIC AIR DEWPOINT DEGREES CENTIGRADE TEMPERATURE -50.5 -60.8 -59.7 -59.7 -59.6 -58.9 -58.5 -57.8 -55.3 -53.6 -52.8 -52.5 -51.6 -48.1 -60.3 -60.0 -60.0 -59.9 -59.8 -56.4 -55.7 -53.9 -52.1 6.64--59.5 -57.1 -55.0 -54.6 -54.3 -53.2 -51.1 -49.3 -56.0 7.84--58.1 MILLIBARS PRESSURE 54.9 29.6 28.9 53.6 52.3 40.7 47.6 44.3 37.5 30.6 35.8 34.9 32.5 31.8 31.0 30.3 28.3 27.6 27.0 25.8 ASCE1,510N 110. 257 9.09 59.1 57.7 56.3 6.64 400 42.4 41.2 39.3 36.4 33.3 42.2 34 - 1 20.4 74500 • n 75000 • n 77500.07 7500005 GEUNE THIC 0.00500 0.00,000 67n00.5 0.00579 0.00060 3500.0 74.00.n 3,000.6 01,00.0 02,000.0 0+000+0 0.00040 0.00000 0.00000 0.00500 0.00°60 10,000.01 11,00.0 11,000 31,00.0 0.0000 0.0000 0.00,00 700007 19000.0 0.0066 0.00000 0.007.09 0.000 700000 21,00 · n 0.000.5 91.,00.0 941)00.0 33,300.0 ALTIJUDE MSL FEET STATION 4 MAY

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17E6	و د د	7:0	Parista Anna Parista	5000	9008	מיים	50.00	101.7	7:0:	7,101	100	7000	1007	0,10	30,3000.	10:00	•000000	0.0000	Nice.	9000
UEODETIC COORDINATES	3/033 LUI	INULX OF REFRACTION	J. Cuit	1.00000	1.0000008	1.00000	1.0000.18	1.000001	1.00000	1.0000.7	1.00001	1.000007	1.0000.7	1.00000	1.000	1.000000	1.000	1.00	1.000000	1.00000
oE00t.110	907	SPEED NIOTS	7.6	4.6	10.6	11.9	13.1	13.9	14.6	15.6	16.4	17.5	18.8	19.5	20 • 1	20.7				
	(F	WIND DATA DIRECTIO, SHOCKEES(T), NE	95.0	6.86	100.5	112.4	115.1	115.5	115.5	117.1	144.5	151.0	130.0	157.4	137.4	1.7.1				
57 A Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	TABLE 5 (continued)	SPEED OF SOUND ANOTE	6.695		507.4			•	Sad.		••									_
UPPER AIR DATA 1300020257 WHITE SANDS	TABLE 5 (37.9	37.0	36.0	35.2	オ・オの	33.6	32.8	32.0	31.2	30.4	29.7	29.0	20.3	27.7	27.0	26.4	25 · B	25.4
5		REL.HUM. DENSITY PERCENT GM/CUNIC METER																		
T MSL		TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE		•																
39.00 FEET MSL 1300 MDT		TEMF AIR DEGREES	-47.0	4.94-	-42·B	-45.6	-45.4	-45.3	-45.1	-45.0	-44.2	4.64-	-43.1	-42.8	-42.5	-45.2	-42.0	-41.7	-41.4	-41.1
111UDE 39E		PRESSURE MILL IBARS	54.6	24.1	23.5	23.0	22.5	22.0	21.5	21.0	20.5	20-1	19.6	19.2	16.8	18.3	17.9	17.5	17.2	16.8
STAILON ALITIUDE 398° 9 MAY &0 1 ASCESSION MO.		GEONE TRIC ALTITUDE MSL FEET	43500.0	0.000+b	0.00049	0.0000	0.0055 0	0.000aq	80200.0	0.0007o	87500.0	0.000ap	86500.0	0.000kg	89500.0	90n06	900006	91000.0	91500.0	92000•c

ULODETIC COORDINATES	106.37033 LON (EG		LAIA	ON SPEED	IN) KNOTS	9999.0XX	800° A 5066	9599 • 00XX	10.3	12.9	70.4	29.1	37.6	34.9	41.0	50.0	47.5	50.6	51.8	0.40	4.0.46	£**3	47.0	10.0	17.4	13.5	3.	÷. V	7.0	0.0	7.7
			WIN, LAIA	DIRECTION	DE GREES (1	0.6666	0.6666	0.6666	218.6	230.5	257.4	263.2	273.5	2002	273.9	274.8	275-1	268.0	557.4	55p.d	255.0	253.2	251·d	217.5	248.2	264.7	20003	167.0	163.7	6.56	131.4
.vels .7 .5			KEL . HUM.	PERCENT		.42	, 65.	.55	38.	46.	18.	10.	17.	31.	31.	.55															
MANDATORY LEVELS 1300020257 WHITE SALUS	TABLE	ADLE O	TEMPERATURE	DEWPOINT	CENTIGRADE	6.	-1.0	-3.6	-6.7	-9.1	-23.5	-27.4	-30.8	-29.6	-36.0	1.44-1															
M W			TEMPE	AIR	S	22.4	17.5	12.2	9.9	1:3	-2.7	- 5.9	-10.6	-16.5	-23.7	-30.4	-40.5	-47.5	-50.9	-51.1	-57.0	-63.4	-68.4	-62.1	-63.7	-60.6	-59.6	-56.3	-52.0	4.7.4-	-43.3
HSL			OPOTENTIAL		FEET	4820.	6533.	B323	10201	12178.	14271.	16522.	18950.	21580.	54446.	27603.	. 51127.	35129.	39900.	42763.	46013.	49745.	54179.	56634.	61327.	64453.	66189.	72804.	76858.	82774.	67657.
STATION ALITIUDE 3989.00 FEET	707		PRESSURE GEOPOTENTIAL		MILLIBARS	850.0	₩008	750.0	700.0	650.0	0.009	550.0	200•0	450.0	0.004	350.0	300.0	250.0	200.0	175.0	150.0	125.0	106.0	80.0	10.0	0.09	20.0	0.04	30.0	25.0	20.0
STATION ALIIT	ASCENSION NO.																		12												

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

XX WIND DATA INVALID DUE TO MISSING KAW AZIMUTH AND ELEVATION ANGLES.

MSL	
FEET MOT	
3997.30 1300	
39	80
UDE	_
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TATION ALTIT	š
STATION ALITIDE 9 MAY 60	SCE
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UATA	
LEVEL 50050	
IGNIFICANT L 1300060	æ I S

TABLE 7

0E0DETIC CO00.011A1ES 32.40034 LA1 LE6 106.42307 LON LE0

PRESSURE MILLIBARS	GEOME ALTIT MSL F	TEMPE AIR GREES	TEMPERATURE IR DEWPOINT REES CENTIGNAUE	RLL . HUM. PERCENT
	3997.3	ς,	1.3	
	9 5	21.6	7 · C	25.0
	8	: ~		29.0
	05.	7.4	-10.7	16.0
	232	5.7	-10.1	•
	16394.8	-6. 0	-27.5	•
	18984.4	-11.8	-31.0	•
	281	-14.1	-32.1	0.02
	•	-16.9	-27.5	•
	24477.5	-24.5	-35.5	•
	26469.5	+.62-	-30.4	•
	27326.6	-30.4	9.04-	35.0
	29051.2	-34.0	140.0	30.0
	30790.0	-39.4	-50.0	31.0
	31161.7	-40.5		
	34.366.8	•		
	•	•		
	35191.b	•		
	37183.7	•		
	-	•		
	39997.7	•		
	40568.9	•		
	•	-57.3		
		-60.1		
	52995.0	-67.0		
	÷	-67.0		
	320.	6.44-		
	7	-50.9		
		-65.7		
	61555.8	-63.3		
	62202.1	-64.5		
	6,179,4	-59.6		
	66188.6	-61.5		
	68446.5	•		
		-53.1		
	79196.7	•		
	84946.3			
	86634.9	-46.7		
	88024.5	****		

STAILOW ALTITUDE 3497.30 FEET MSL 9 MAY 60 T300 MNT ASCENSION NO. 80

SIGNIFICANT LEVEL DATA
13000600000
S M R
TABLE 7 (continued)

6E0DETIC COUNDINATES 32.40034 LAT LEG 106.42307 LUN DEG

REL-HUM. PERCENT

TEMPERATURE AIR DEWPULMI DEGREES CENTIGNAUE PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET

-43.8 18.0 90364.7

STATION ALIITUDE 9 mgt & d Asler,sion Mo.	11TUOE 3997	97•30 FEET 1300 MDT	ET MSL T	_	UPPER AIN LAT 1300060000 S M R TABLE 8	A 14 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		.32• .32• 106•	6E0DETIC COOKOTHATES .32.48034 LAI LEG 106.42307 LON LEG
GEUMETRIC ALTITUDE MSL FELT	PRESSURE HILLIBARS	TEMF AIR Degrees	TEMPERATURE R DEWPOINT EES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KROTS	WIND DATA DINECTIO: S DEGREES(14) N	TA SPEEU nadTS	INJEX OF REFRACTION
5997.3	875.3	25.1	1.3	21.0	1019.4	673.8	270.0	24.1	1.000256
41.00.0	875.2	25.1	•	1	1019.4		270.0		1.000250
4500.0	860.1	23.0	1.0	23.4	1006.4		203.0	23.5	1.000253
5000.0	845.1	21.1	.	25.0	997.6	Ī	257.0	23.2	1.00025.0
5500.0	830.3	19.7	e	25.0	985.0		250.4	23.2	1.600245
0.0000	815.7	18.3	-2.0	25.0	972.0		243.0	23.5	1.000240
6500.0	801.1	16.8	-3.1	25.5	h•096		257.3	23.7	1.000250
7000.0	180.7	15.2	-4-1	26.1	948.3		235.7	23.8	•
7500.0	172.6	13.7	-5.1	26.7	930.4		2.57.2	23.6	
3.000A	758.7	12.1	-6.2	27.3	924.7		2.30.2	22.8	1.0002.4
0.0059	745.1	10.6	-7.2	27.9	913.2		254.0	21.8	1.0002.0
J•00U5	731.7	0.6	-8.3	28.5	901.6		7.467	23.1	1.000.16
9-0056	718.5	7.6	0	28.3	7.068		6,55	29.5	1.000213
100001	705-3	7.5	-14.3	19.6	874.7		238.0	31.4	1.000205
10500.0	4.269	6•9	-17.1	16.0	860.5		241.0	29.5	1.000199
11000.0	9.629	1.9	-17.8	16.0	847.2		7.047	26.2	1 • frun 1 ½ c
11500.0	607.0	5.1	-18.6	16.1	834.5		248.0	25.2	1.000193
12000.0	# # # # # # # # # # # # # # # # # # #	D. C.	-19.5	16.1	822.3	_	250.5	25.5 25.5	1.0001.0
12500.0	1.740	7.5	-20.4	16.2	810.5		0.00%	27.7	1 - 000107
13000-0	0.000	0 ° 1	-21.5	10.3	796.5		220.00	29.6	1.000133
0.000	1000	9	7.22-	16.5	775.6	_ `	2.162	01.5	1 - 100120
0.000.41	הייהה הייהה	-201	1.02	79.7	764.5	0.63.0	0.102	34.35	1.000175
15000.0	583.8		-25.0	16.7	753.		7.000 7.400	34.50	1.00017
15500.0	572.8	-4.5	-25.9	16.8	742.3		256.8	34.9	1 • 000109
100001	562.0	-5.7	-26.8	16.9	731.6		250.7	34.0	1.0001.7
10,000.0	521.3	-6.8	-27.7	17.0	720.0		200.5	34.0	
17000.0	240.6	-7.8	-28.5	17.0	709.5		202.0	32.4	1.000161
17500.0	530-1	200	-59.4	17.0	698.3		203.4	31.4	1.000158
18600.0	7.61c		-30.5	1/.0	647.3		204.2	31.9	.000
10500.0	2000	-10.8	-31.0	17.0	6.079		204.7	33.5	.0001
19000.0	/ • 66 ±	-11.8	-31.8	17.0	665.9		2.407	37.1	1.000151
19500.0	2000	-12.7	-31.9	18.2	655.0		308.0	39.8	1.000148
0.00002	7004	0.01	0.25	0 . K (7.50	057	****O	2.14	
20502	0.0/	0.41	-30.4	23.4	6559		4.Co2	41.9	1.000144
210012	C•101	15.	2	- 4	623.9	.	201.3	41.7	
71500.D	1.254	-10.9	27	•	614.2	6,5	•	: ,	
22,000.0	7 · 7 * :	1.61	28	•	Z + 509	270	•	ď,	
25,00.	÷	-19.4	<u>ج</u> :	33.0	J 0	620	25/25	•	Cont
ر.000ء	125.0	-20.	-31.4	•	296.3	619.1	1.607	40.5	1.000133

ASCENSION 140. GEUMLTHIC PR ALTITUE ASSO0.0 Z4100.0 Z4500.0 Z5500.0	PRESSURE				TABLE 8 (c	(continued)	•	7.00.7	106,42307 104 026
u	PRESSURE								
5500.0 1100.0 1500.0 1500.0	MILLIBARS	TEMP AIR DEGREES	TEMPERATURE R DEWPOINT EES CENTIGRADE	REL.HUM. PERCENT	DENSITY S GM/CUBIC METER	SPEED OF SUUND ANOTS	WIND DATA DIRECTIO, S CEGREES(TW) N	TA SPEED ARIOTS	INDEX OF NEFRACTION
		•	,	,		1		4	
0.000 0.000 0.000 0.000 0.000	# 10 ·	-22.0	-32.	37.0	2/10	_	0•10Z	C	1.000151
500.0 0.00.0 0.00.0 0.00.0	40.40	-23.3	-34.0	. 36.5	566.5		ナ・ナロバ	** ** ** **	1.001129
0.0000	399.6	-24.6	-35.3	36.1	8-65S	614.3	207.8	6.44	1.000127
0.000	391.3	-25.8	-36.0	37.3	550.9		2/1.0	6.44	1.0001.4
v.00v	383.1	-27.0	-36.8	38.6	542.1		274.5	45.7	1.0001;2
	375-1	-28.2	-37.6	39.8	533.5		275.2	46.2	1.0001.0
2050000	307.3	-59.4	-38.5	40.8	524.9		274.5	51.1	1.000118
27000.0	359.6	-30.0	-39.9	37.3	515.1		2/2.0	3.40	1.000110
275,000.0	352.0	-30.8	-41.3	34.5	505.9		2/1.3	55.6	100114
201,00.0	344.5	-32.0	-42.8	33.0	497.0		270.3	55.7	1.000112
20°,00.0	337.1	-33.3	-44.3	31.6	489.5	_	9.607	54.0	1.000110
.600067	329.9	-34.5	-45.8	30 • 1	4A1.5	6.119	9.607	53.0	1.000198
295,00.0	322.8	-35.8	-47.0	30.3	473.8	2.000	209.4	51.4	1.900100
300000	315.8	-37.2	-48.2	30.5	466.2	5,0,0	5.60Z	7.64	1.600104
50,000.05	50a.9	-38.6	-49.3	30.8	456 · B	590.1	2080%	7.64	1.000103
51000ts	302.2	0.04-	-57.4	13.5**	451.5	5,4.8	# · pa?	0.64	1.000101
51500·n	295.5	-41.1			443.6	593.4	208.1	20-1	1.00000
32000 C	288.9	-42.0			435.4	5-755	201.b	51.3	1.900097
32500.0	282.4	142.9			427.5	591.1	207.0	23.6	1.,000095
0.00¢	4.0/2	5 · C · .			5.615	590.0	20/02	26.2	1.0000.3
0.00°cc	0.0/2	/· **			411.7	5rg.8	201.4	58.6	1.00002
J-000ac	263.9	9.0			1-505	587.6	4.007	61.n	1.000000
0.00°+0	0.00%	7.05			396.1	500.9	7.0n7	65.5	1.000000
0.00'16'6	2252	£0.7			387.3	-	7.02	61.8	1.000000
32500.0	246.0	5./5-			330.5		2.402	61.1	1.00.00.5
3c()00.0	240.8	9-84-			373.0		203.7	60.3	1.00000.3
აიეიი-ე	235.3	1.64-			360.9	562.3	202.9	59.5	1.000052
371,00.n	.556.6	-20.9			360.4	56.0.9	202.4	60.3	1.00000
37500.0	224.7	-51.3			352.6	5,0,3	202.1	61.9	1.0000079
3000nc	219.5	-51.3			344.0	-	201.5	61.7	1.00001
36500.0	214.4	-51.3			336.7		0.00×	61.0	1.960075
0.00055	209.5	-50.5			327.8		259.7	58.6	1.000073
595,0000	204.7	-49.5			316.8		258.5	55.5	1.000071
3.0000	2000	-48.5			310.1	503.9	25762	55.7	1.00000
40500.0	195.4	-48.5			303.0	-	4.04%	57.2	1.000067
41,000.0	190.9	-49.2			296.9		256.1	58.5	1.00000
41500.0	•	-50.0			291.0	-	2500-1	59.6	1.000005
44,00.0	182.1	-50.8			285.3		7,00,7	B-00	1.0000
0.5500.n	:	-51.6			279.7	579.9	255.6	60.4	1.0000.2
3,,00.9	173.8	-52.3			274.1	578.9	255.5	58.5	1.00001

STATION ALTITON ALTITON AND SECENSION NO.	STATION ALTITUDE 3497 9 may 40 Ascension no. 80	J7.30 FEET MSL 1300 MDT	-	UFPER AIR LAIM 1300060060 S M R TABLE 8 (cont	LaTa Oco (continued)	.	GEODETIO 32.4 106.	GEODETIC COONDINATES 32.48834 LAT UEG 186.42387 LON LEG
GEUME TRIC ALIIJUDE MSL FELT	PRESSURE HILLI _b ars	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY 6M/CUBIC METER	SPEED OF SOUND ANOTS	WIND DATA LIRECTION S DEGREES(IN) N	TA SPEEU NNOTS	INDLX OF HEFRAC1101,
43500.0	169.7	-53•1		268.7	577.8	2555-2	56.7	1.660000
44000.0	165.8	-53.9		263.4		254.0	55.3	1.0000.9
44500.0	161.9	-54.7		258.2	•	524.4	54.3	1.0000.8
45n00.n	158.2	-55.5		253.2		254.0	53.3	1.000050
45500.0	154.5	-56.3		248.5		253.0	52.1	1 • 00001.5
40000	150.9	-57.1		243.3		253.1	50.0	1.00000.4
46500.0	147.3	-58.1		238.7		252.7	49.64	1.000053
47000.0	143.8	-59.2		234.2	5.9.4	252.5	48.2	1.00005.2
47500.0	140.4	-60.2		229•io		251.7	8•9 1	1.00001
48000.0	130.9	-60.8		224.7	5.7.1	251.3	47.0	1.0000:0
48500.0	133.6	-61.4		219.8		250.5	48.3	1.000009
# 00006	130.3	-62.1		215.1		250.7	48.9	1.000048
49500.0	127.2	-62.7		210.5		250.5	49.3	1.0000.1
200000	124.1	-63.3		205.9		250.0	9•64	1.00000
50500.0		-63.9		201.5		1.167	49.3	1 • 0000 + 5
51000.0		164.5		197.2		7-107	0.64	1.000004
0.00016	7.011	7.00.		192.9		2525	H • 6 +	1.0000.43
0.000 PC		2.001 2.001		2.251 1.251		1.767	50.B	1.00062
5.000.0	107.0			1000	יינים זיינים זיינים	1000	3 · 1 · 3	T+0500-1
535.00	104.5	-67-0		176.2	_	1.000	5.3.5	
540000	101.7	-67.0		171.0		2000		6700001
54500.0	99.5	-66.8		167.5		252.7	51.4	1.0000.7
000lcc	96•	-66.3		163.0		252.5	3.84	1.000036
55500.0		-65.8		154.0		251.7	43.3	1.0000.5
0.0000c	92.1	-65.2		154.5		6.64 ₹	36.0	1.000024
26500-0	9.69	0.49-		149.6		247.0	29.1	1.000053
E-000/C	0./0	h•19-		T • h • T		241.3	23.9	1.000032
0.0047	60.0	† • • • • • • • • • • • • • • • • • • •		3.0°C		252.5	19.1	1.0000.1
	4.00	1070		15/61		6.627	1.,	1000001
	107	0.29 9.44		134.6		1.017	10.0	1.00000
39.00.0	77.5			1.00.		7.77	0.7	620000-1
0.00.00	75.06	155.7		127.0		0.612	1.01	620000•T
0.00.400	7.5.8	0,001		104.01	_	0.017	21.0	1 0000 E
010000	72.0			110.0	5.4.2	2007	03.50	1200001
0.00.14	70.2	7000		116.6		2010	25.1	
0.00.00	600	154.1		1 2 4 5 1		0.007	17.0	4. 100 to 1
0.00.70	8.09	104.0		11165		3 5 7 N	26.5	
63000-0	65.2	-63.1		100.1	504°D	.T.242	24.6	1.0000
,				ı	;	:	1	

STATION ALIITUDE 3997.30 FEET MSL 9 May 80 1309 Mut ASCENSION NO. 80

UPPER AIR LATA 130006000U S M K TABLE 8 (continued)

olodetic coordinales 32,46034 lai de6 106,42307 loii de6

AL 1 1 1 JUDE		AIR	IEMPEKATURE R UEMPOINT	REL.HUM. PERCENT	GENSITY GM/CUBIC	SPEED OF	WIND DATA	ITA SPEED	INUEX OF
MSL FEET	HILLIBARS	DEGREES	CENT IGRADE	1	METER	NNO15	DEGREES (IN)	KIOTS	REFRACT10N
63500.		-62.2			105.1	565.8	245.5	23.5	1.00002
0.000		-61.3			102.1	5h7	240.5	18.5	1.00002
04200.0		+.09			7.66	5.000	743.0	13.4	1.00002
ი5 _ს ი0∙ი	1.65	-59.6			90.5	509.5	251.2	8.3	1.0000.1
65500.0		→ •0~			4.46	5000	450.0	3.3	1.0000.1
0.00000		-61.2			92•0		202-1	. 1.1	1.0000.1
00200		-61.2			h. 06		45.6	2.5	1.0000.0
67n00.c		-60.8			88.0	507.7	3,00	2.0	1.00000.0
67500.0	52.	+•09 -			85.7	50806	7.2.9	1.5	1.000019
681100·U	51.	-60.0			83.5	5.00	352.3	1.3	1.00019
0.00000		-59.6			81.3	502.4	317.	1.8	1.900033
690000		-59.2			79.3	5.4.9	301.3	2.7	1.00018
6.00569	* / *	-56.8			77.5	570.4	2.54.2	2.7	1.100017
70000	±0.	-28.4			75.3	570.8	200.0	2•0	1.000017
7.05.00	_	-58.1			73.4	571.3	204.4	1.4	1.000010
71000.n	5.44	-57.7			71.6	571.8	213.0	1.7	1.000010
71500.0	_	-57.3			ค.69	572.3	1900-6	3.5	1.000010
/2000·n	_	-57.0			0.89	572.0	105.0	3°G	1.000015
7.500.0		-56.6			66.3	573.3	100.1	9•9	1.00001
130,00.0		2.96-			94.0	573.8	176.2	7.5	1.000014
7.55.00.0		-55.00 -00 -00 -00 -00 -00 -00 -00 -00 -00			63.0	574.3	1,0.1	7.9	1.600014
140000		-55.0			7.70	574.0	102.4	7.8	1.000014
0.00547		55.1			59.9	575.3	1,761	7.6	1.000013
0.000c/		1.40.			\$* 32° .	575.8	202-1	7.6	1.000013
0.00567	25.	7.45			50.0	570.5	205.4	7.1	1.600013
2,000					ດຸດ	576.0	500%	†••¢	1.000012
77,00		0 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °			24.1	577.5	207.5	2.1	1.000012
77.000.7		13.5. K			52.7	577.7	195.5	 	1.000012
7 1000		3000			21.5	2.//2	7.001	0.0	1.000011
0.0000		1001			\$ 0c	577.5	113.6	ტ•ტ.	1.0000.1
100000		000			7.64	577.5	102.1	9.	1.000011
70.00.0		100			T• 25	1.//5	100.0	ت • •	1.000011
1.000.61		100			6.04	57/.5	112.9	4.0	1.000610
0.00000		122.			ລ :	578.4	142.0	2.9	1.000010
		0.76			3 1	579.3	か・ナウ!	2.6	1.000010
0.00010		7101			7 · 7 ·	2000	C+C+1	2.4	1.000 to
01500.0	20.72	200-			42.5	501.1	100.00	2.5	1.000099
0.00170		r • n • 1			-	50.2.0	1.0.1	7. C	1 • ŋύθυη9
2500	22.0	C • 6 b •			40.7	5,2,3	123.6	3.0	1.00000
0.500.0		1							

LIITUDE 39'	37.30 FEET	MSL		13000600 S M B	J q		JE ODE T1	SEUDETIC COURDINATES
O. 80				TABLE 8 (continued	~	100.	106-42307 LUN UEG
PRESSURE	TEMPER AIR U	ATURE SEMPOINT SMISSAGE	REL.HUM. PERCENT	DENSITY GM/CUBIC	SPEEU OF SOUND	WIND DA DIRECTION	1A SPEED KOOTS	TRUEX OF VFFRACTION
1	-47.9	ALL DIVADE		38.0	<	****	6-1	1.0000018
	-47.2			37.0		87.0	9.3	1.000008
	-46.5			30.1		4.50	12.6	1.000008
	-45.9			35.2		83.B	13.7	1.00000
	-46.2			34.46		4.88	11.8	1.000008
	4.04-			33.7		7.46	10.0	1.00007
	9.94-			33.0		103.1	B•4	1.00000.7
	-46.1			32.1		118.2	8.1	1.000007
	-45.3			31.3		152.0	\$ • \$	1.000007
	4.44			30.5		145.5	9.3	1.000007
	E+++-			8•62				1.000001
	-44.1			29.1				1.000000
	0.44-			26.5				1.000000
	-43.9			27.6				1.000000
	STATION ALTITUDE 39' 9 MAY 60 ASCELSION WO. BU GEUMATHIC PRESSUKE ALTITUDE MSL FELT MILLIDAMS BY 6000 24.0 BY 5000 22.9 BY 6000 22.9 BY	111UDE 399 40. BD BRESSUKE 24.6 24.6 22.9 22.9 22.9 22.9 22.9 22.9 22.9 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	11100E 3997 40. 80 13.0. 80 11LLIBARS DI 24.0 22.9 22.9 22.9 22.9 22.9 22.9 22.9 21.0 21.0 19.0 19.0	111UDE 3997-30 FEET MSL 1300 MDT 40. BO 1300 MDT AN DEWPOINT ALLIBARS DEGREES CENTIGRADE 24.6 -47.9 24.0 -47.2 23.5 -46.5 22.9 -45.9 22.9 -46.5 22.9 -46.1 21.9 -46.1 21.9 -46.1 21.9 -46.1 21.9 -46.1 21.9 -46.1 21.9 -46.1 21.9 -46.1 21.9 -46.1 21.9 -46.1 21.9 -46.1 21.9 -46.1 21.9 -46.1 21.9 -46.1 21.9 -46.1	111UDE 3997-30 FEET MSL 1300 MDT 1300 MDT 1300 MDT 1300 MDT 1300 MDT 20. BO 24.0 TEMPERATURE REL.HUM. 24.0 -47.2 22.9 -45.9 22.9 -46.5 22.9 -46.5 22.9 -46.5 22.9 -46.5 22.9 -46.6 21.9 -46.6 21.9 -46.6 21.9 -46.1 21.1 -46.1 20.5 -45.3 20.9 -44.4 19.6 -44.0 18.7 -44.0 18.7 -44.0	IITUDE 3997-30 FEET MSL 1300 MDT 40. BO RESSURE TEMPERATURE REL.HUM. AIR DEWPOINT PERCENT ILLIBARS DEGREES CENTIGRADE 24.0 -47.2 23.5 -46.5 22.9 -45.9 22.9 -46.1 21.0 -46.1 20.5 -46.1 20.5 -46.1 19.6 -44.4 19.1 -44.1 18.7 -44.0	1300 MDT S M R S M R S MDT S M	1300060000 1300 MDT

UEODETIC COGRAINAIES 32.48034 LAI LEG 106.42307 LON LEG		CAIA	I SPEED I) KNOTS	2.7.	23.7	21.8	34.0	20.3	34.1	35.8	9.00	6.14	6.44	55.6	47.2	61.5	53.6	59.1	50.6	L.44	5.5	17.0	20.2	11.7	1.7	7.3	J.B	D.C	7.5
		WIN.	DEGREES(IN) KN	259.2	236.7	235.2	239.1	720.4	252.4	260•0	204.7	259.3	267.5	271.0	266.3	265.1	257.2	255.6	253.0	550.4	252.8	214.2	231.3	246.7	321.0	176.0	100.4	106.0	145.0
týt. oú		KEL . HUM.	PERCENT	25.	٠٥٦	26.	10.	.10.	17.	17.	17.	39.	20.	34.															
MANDATORY LLVELS 130000000 S M R	TABLE 9	TEMPERATURE	DEMPOINS CENTIGRADE	9.	-3.1	—6• ც	-16.7	-19.8	-23.6	-27.8	-31.8	-27.8	-35.2	-41.7															
¥		TEM	AIR DEGREES	21.6	16.7	11.1	7.4	3.4	-1.6	6.9-	-11.8	-17.1	-24.5	-31.1	-40.5	-46.7	-48.5	-52.1	-57.3	-63.1	-67.0	-63.2	-63.3	-60.1	-59.6	-56.1	-53.8	-48·4	1. 1. 1.
HSL		GEOPOTENTIAL	FEET	4833.	6540.	6324.	10195.	12182.	14292.	16541.	18958.	21580.	24437	27582.	31100·	5115.	59905.	42766.	46002.	49725.	54175	58667	61344.	64463.	68189.	72606.	78858.	65749	67611.
3997.30 FEET 1300 MDT 10		PRESSURE GE	MILLIBARS	850.0	800.0	750.n	700.0	0.059	0.009	550.0	500.0	450.0	400.0	350.0	300.0	250.0	200.0	175.0	150.0	125.0	160.0	80·0	70.0	0.09	50.0	0.04	30.0	25.0	20.0
STAFLON ALTITUDE 3997 9 MAY DO ASCLISTON NO. BO																					20								

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

Che Trans. On ACM Section 1. Independent	SIGNIFICANT LE
9 MAY 60 1300 MDT	HOLLOMAN
ASCE;(\$10;) NO. 152	TABLE 10

SIGNIFICANT LEVEL DATA	1300010152	HOLLOMAN
SIGNIFI	_	Ξ.

υΕΌΣΕΤΙΟ COOKDINATES 32-80865 LAΓ ΣΕΌ 106-09965 LON ΣΕΌ

T.	•
REL.HUM. PERCENT	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
TEMPERATURE IR DEWPOINT REES CENTIGNADE	1
TEMPE AIR Degrees	22.1.
E GEOMETRIC ALTITUDE S MSL FEET	4126.6 4839.3 4839.3 4839.3 10585.8 10585.8 10585.8 10585.8 10585.8 10585.8 10585.8 22425.2 22117.8 22117.9 22152.7 22117.9 22152.7 33152.7 42056.1 434561.3 434561.3 43456.1 61323.5 61323.5 64397.7 64380.6 65380.6
PRESSURE MILLIBARS	871.5 6650.0 6650.0 666

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FEET MUT	
1300	
ነሀЈይ 4	152
17,02	02 70
STATION ALITIONE 4126.59 FEET MS	ASCENSION NO.

SIGHIPTCANT LEVEL DATA 1500010152

TABLE 10 (continued)

okObetic COOMDINATES 32.8u865 LAT DEG 106.09965 LON DEG

REL·HUM. PLRCENT TEMPERATURE AIM DEWPOINI DEGREES CENTIGNADE

PRESSURE GEOMETRIC ALTITUDE MILLIBARS NSL FEET

-56.6 43.6 71043,1

	TOM CORT			NOT LONG	HOLLONAGE		10 TO	CHANTINGO OTIGOGO
ASCENSION NO. 152	3						10c	100.05965 LON LLG
				TABLE 11				
PRESSUME	Ξ	TEMPERATURE			SPEED OF	AU DA	DATA	THUEX
HILLIBARS	AIK DEGREES	CENTIGRADE	PERCERI	GM/CUBIC METER	SOCIAL NNC TS	DEGREES (TW)	ANOTS	OF NEFRACT 10.4
871.5	25.1	-3.3	15.0	1015.8	673.5	300.0	14.0	1.000247
860.2	21.6	7.5	0	1011.9	670	592.9	13.5	1 • 0u0271
845.1	20.5	7.2	42.0	997.9	609	282.7	13.1	1.000207
430-1	19.1	5.9	45.0	985.3		272.3	13.2	1.000201
015.5	17.7	4.6	45.0	972.9		202.4	13.7	1.000255
8.00a	16.2	3•3	42.0	960.0		253.5	14.6	1.000249
786.6	14.8	2•0	45.0	948.5		245.7	15.8	1.000244
176.6	13.3		42.0	936.5		249.0	16.7	1.0002.58
158.9	÷	9	42.0	924.7		255.6	17.7	1.000255
745.4	10.5	-1.9	45.0	913-1		201.0	18.9	1.0002.9
731.9	9•0	-3.0	45.6	901.3		200.1	19.7	1.000024
/14.5	7.6	0.4-	43.6	-	653.6	1.963	50.4	1.0002.0
105.4	6.2	-5.0	9.44	877.7	651.9	254.0	20.3	1.060210
692.4	2.6	-6.8	†•0	663.6		250.4	20.0	1.600210
679.6	9.4	-B•3	38.6	850 • 8		242.5	21.1	1 • (:002.56
0.799	3. 0	-9.5	38.0	838·0		241.3	22.4	1.000242
0.24.4	2.5	-10.6	37.9	820.0	0+7+0	240.5	23.6	1.0001%
04.00	0·1	9.11.	3,10	814.6	640.5	259.5	24.8	1 - (10)(1) - (4)
0.47.0	7.1	N	27.67	802.7		9.042	20.5	1.6001.0
2000	4.6		2 - 6	1.17		7-2-7	7 00	1010001
2000	8.5	1011	17.4 17.4	768.	7.140	247.0	6.62	1.0001:3
533.4	0.5.	-17.3	37.2	757		7.47.47	33.0	1.000177
572.4	-6.2	-18-4	37-1	746.3		245.5	35.0	1.000174
561.5	-7.4	-19.5	37.0	735.4		240.1	35.3	1.000171
550.6	-8.2	-20.3	37.0	723.3				1.000103
539.8	-9.1	-21.0	37.0	711.5		. 1.462		1.000105
529.3	6•6-	-21.8	37.0	6.669	032.3	8.052	34.9	1.000102
519.0	-10.7	-22.5	37.0	•	031.3	258.5	36.9	1.000119
ສ•ສປເ	-11.6	∾	37.0	677.2	c30.	2002	40.1	1.0001.0
6.864	-12.3	-23.9	37.2	6-599		202.3	す・	1.0001:3
1.684	-12.6	-23.7	38.8	653.4		202.7	# £5.1	1.000151
± .6/ +	-13.9	-23.8	45.7	643.0		4050Z	6.44	1.000148
469.8	-15.2	-54.0	Φ	634.2		201.1	•	1.000146
460.5	-16.6	N	50.8	6-429		9.6c2	n	1.000144
451.2	-17.9	-25.7	0	615.4		254.5	÷	1.000.141
	-19.2	-27.0	σ,	0.909		258.3	'n	1.0001.4
•	-20.5	23	Ġ,	•	619	559.1	ċ	1.000130
N	-21.8	•	48.6		617.8	201.0	42.3	1.000104
415.7	C (6	•		,			

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STATION ALITTUDE 4126.59 FEET MSL	
9 HAY 150 1300 MDT	Ō
ASC. N.S.10r0. 152	

LATA GEO
PER AIR LATA 1300010152 OLLOMAN

ODETIC COUNDINAIES

9 May to a ASCENSION 40. 13		1300 MNT	JCE 13		HOLLOMAN	70		32.00 106.05	32.000010ATES 32.00005 LAI LEG 106.09905 LON DEG
						(continued			
GE UME THIC	PRESSURE	TEME	TEMPERATURE	REL.HUM.		SPEED OF	WIND DATA	17	INDEX
ALIITUDE MŠL FELT	MILLIBARS	AIR DEGNEES	DEWPOINT CENTIGRADE	PERCENT	GM/CUBIC METER	SCUMD KNOTS	UINECTION DE GREES (TH)	SPEED	OF REFRACTION
0.000+7	407.1	-23.9	-31.8	48.0	568.9	615.2	209.1	48.0	1.000129
24500.0	398.8	-24.9	-32.8	47.5	559.4		271.3	53.7	1.000127
25000.0	390.5	9.42-	-33.5	43.1	547.2		272.0	59.0	1.0001.4
25500.0	332.4	-25.5	-34.6	41.6	537.6		272.9	59.4	1.0001.2
20000°	374.4	-26.7	-35.9	41.2	259.1	611.7	274.0	51.9	1.0001.0
20200.n	360.6	-27.9	-37.1	40.7	520.7	610.1	274.1	47.4	1.000118
27000.5	358.9	-29.5	-38.4	40.3	512.4	0.600	273.2	46.8	1.000116
0.00527	351.4	-30.6	-39.7	40.0	504.5		272.2	7.64	1.000114
231,00.6	343.9	-32.2	-41.2	40.0	497.1		271.6	20.1	1.000112
28500·0	336.6	-33.8	9.24-	40.0	489.0		272.0	49.1	1.000116
1.00ng	329.3	-35.1	-43.8	40.0	481.6		275.0	47.3	1.000100
29500.0	552.5	-36.3	6.44-	40.0	473.7		210.5	45.3	1.000100
30t100.0	315.2	-37.5	0.94-	0.04	465.4	596.1	278.2	7.44	1.600104
30500.0	308.3	-38.7	-47.1	0.04	458.1	596.5	279.0	43.9	1.000103
-	501.6	-39.9	-48.2	0.04	4.50.4		279.7	43.9	1.00001
31500.0	295.0	-41.0	E+6#-	0.04	442.0	-	2.672	43.8	1.000009
32000.0	288.4	-42.0	-51.0	36.3**	434.5		278.4	43.8	1.0000.1
52500.0	281.9	-45.B	-53.2	30.0	450.4		270.4	43.8	1.000005
23000.0	275.0	-43.7	-55.7	24·8+#	418.5		2/d•b	43.8	1.000003
33500.9	269.4	9.44	-58.5	19.0**	410.7	589.0	274.6	0 · 3 ·	1.000002
D.000+7	4000	140.0	0.29-	10.01	402.0		2.0.2	6.0	0.,0000.
0.000	20/02	1000	- 60°	*****	34245		5.7.5	40.0	1 • 00000 B
35000 A	7:152	247.2	-17.2	1.8*	388.2		2/0.5	45.7	1 • 00000; 6
35500•0 7	0.042	C*/ h-			379.8		4.5/2	45.5	2.00000 • T
364,00 · C	#•0#Z	8.84-			373.2		274.1	42.0	1.00000
36500•n	20 to 2	1.05-			366.8		272.8	0.77	1.000002
0.00076	4.622	-51.5			350.5		2/1.5	44.1	1.6000.0
37500.0	754.1	-52.9			354 • 3		2.0.5	40.4	1.000079
0.0mgs	Z10.9	-24.5			348.5	576.4	გ•გი 2	45.B	1.000078
38500•0	213.8	-55.6	•		342.3	574.7	20102	4.0.4	1.000076
34000-0	208-8	ŝ			336.2	573.0	202.	45.1	1.000075
39500.0	203.8	-58.0			330.1		4.502	47.8	1.060074
	199.0	S			323.7		201.9	51.3	1.000072
-	194.2	Ŝ			315.9		259.9	53.9	1.060670
41000.0	189.6	-57.5			306.3		257.0	55∙β	1.00000
41500.0	185.1	-55.7			596.6		255.5	57.9	1.00000.6
42000.0	180.8	-53.8			287.2	-	254 · B	59.5	1.00061.4
•	-	-53.2			279.0		255.7	57.5	1 • CUUUt. 2
42000.0	172.5	-52.7			272.0	578	552.9	58.1	1.0000.1
43500·C	108.4	-52.4			265+8	574.8	252.4	59.1	1.00001.9

** AT LEAST ONE ASSUMED RELATIVE HUNIDITY VALUE WAS USED IN THE INTERPOLATION.

DEODETTIC COUNTRY ILS 32.68865 LA1 LLG 106.09905 LON DEC 4.000J. • 10000 8 000056 •00000-3 • 00000 20000. 0000000 •3000. • 0000036 • Cuthus 40,000.05 .0000; 8 • 0.0000 1.000057 •000050 -60005 +00000+ 0000115 140000-.008648 • 000000 ****** • (100645 •00000 • 600004 • 600041 **650009** • 0000 5 7 • 600003 -0000032 0000000 •3000e• •0000€7 •000025 .600021 REFRACT10W INCLX 21-1 18-9 18-0 17-2 16-5 59.8 60.5 57.6 57.6 52.1 52.1 57.0 60.1 60.4 58.5 56.6 54.5 31 · 4 33 · 1 34 · 6 32.9 30.4 27.8 24.4 SPEED ANOTS WING DATA DIRECTION DEGREES(IN) 247.6 250.4 251.5 252.7 254.0 251.0 249.0 7.40.0 7.40.0 254.0 254.0 255.0 254.0 255.2 252.1 250.7 248.7 243.5 251.6 269.0 559.9 249.1 240.2 2000 50400 254.2 255.0 233-1 250.d 255.u 250.6 TABLE 11 (continued) SPLLD OF 5577.4 5577.6 5578.6 5578.1 5578.1 5578.6 5579.6 5579.6 5579.6 5579.6 556.4 556.4 5556.1 550.1 550.1 550.1 550.1 504.8 564.8 504.9 304.5 556.5 565.0 50,5.1 SOUND NNO 1S 256.0 251.3 51.9 GM/CUBIC METER 242.0 232.0 227.1 222.1 222.1 217.2 212.4 59.6 48.2 246.6 202.2 198.1 94.0 90.1 86.2 82.4 78.7 75.0 63.5 55.7 44.5 7.04 35.7 REL.HUM. DENSITY PERCENT GM/CUBIC AIR DEWPOINT MILLIDARS DEGREES CENTIGRADE TEMPERATURE -53.5 -54.6 -55.7 -56.7 -57.8 -58.4 -62.7 -63.6 -66.2 -67.1 -67.9 -65.9 -59.1 -59.7 -60.6 -61.0 -619--65.3 -68.5 6.89--69.2 -69.1 -67.8 -66.5 -63.8 -62.4 -62.5 -62.8 -63.0 -62.9 -60.1 0.69-5.49-9.09. **-68.4** -63.2 -65.1 123.2 120.1 117.2 1114.3 1111.5 100.8 56.9 153.2 149.6 140.0 139.1 135.8 132.5 129.3 103.5 01.0 98.5 93.6 91.3 89.0 86.8 84.6 82.5 80.5 76.57 72.9 71.1 69.4 67.7 66.1 90.0 GEUM THIC 40000.0 47000.n 47500.n 48500.0 49000.0 49500.0 500000 53000-0 53500-9 57500.0 54000.0 0.00cuc 51500.0 52500.0 010000 44500.0 455,00.0 48000.0 51000.0 52500.0 0.00040 54500.0 5500055 55000.0 0.00300 0.00000 0.00500 01500.0 45000.0 52000-0 0.00v65 59500.0 ALTITUDE MSL FEET

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Sharry Sted and Shake

JEODETIC COOKUIHATES 32-Bodos LAT (EG 106-UY905 LON DEG	A INULX SPEED OF NHOTS REFRACTION	13.3 1.000023 11.5 1.000022 9.9 1.000021 8.4 1.000021 5.0 1.000019 3.6 1.0000119 3.6 1.0000114 5.6 1.0000114 7.5 1.000017 1.000017 1.000017
-	UIRECTIO. SE	24.0 2003.0 2003.0 2003.0 3003.0 155.0 66.1
μTA ζ ont.inue	SPEED OF SOUND KNOTS	50000000000000000000000000000000000000
UPPER AIR LATA 130001d152 HOLLOMAN TABLE 11 (continued)	DENSITY SOME TER	000 999 996 997 997 997 997 997 997 997 997
	REL.HUM. DENSITY PERCENT GM/CUBIC METER	
T MSL	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	•
1300 MDT	JEMP AIR Degrees	633-7-62-55-7-62-62-62-62-62-62-62-62-62-62-62-62-62-
STATION ALIÍTUDE 412. 9 may 00 Asle:1510;, 140. 152	PRESSURE MILLIDARS	60000000000000000000000000000000000000
STATION ALIÍTUDE 4 9 may 00 Asle,4sio; 140. 152	GEO, IL THIC ALTITUDE MSL FEET	0.00000 0.000000 0.000000 0.000000 0.000000

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MAINATORY LLVLLS 1300010152 HOLLOMAN	
MALLOMAN	

11.5	r. G	UEG
S. Lus	LAT	Ş
ر روز	52. Bodos LAT DEG	しいりっち
oce 1	32.	106.
7		

			TABLE 12			
PRESSURE	PRESSURE GEOPOTENTIAL		TEMPERATURE	KEL . HUA.	WIN, CAIA	AIA
MILLIBARS	FEET	AIR DEGREES	DE MPOINT CENTIGRADE	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	0 4836.	21.0	7.6	42.	286•1	1 3.2
0.00%		10.1	3.2	t 5		14.7
750.0		11.0	-104	101		70.0
700.0	-	5.6	-5-4		252.9	70.1
650.0		1.8	-11.0	36.		24.0
0.009		-3.2	-15.7	37.	242.0	31.3
550	n 16510.	-8.3	-20.3	37.	251.3	35.1
500		-12.3	-23.9	37.	262.1	43.8
420		-18.1	-25∙8	50.	258-3	4.5.B
*00		-24.7	-32.5	46.	271.0	5,46
350		-30.9	0.04	.04	272.0	9.77
300		-40.5	748.5	•04	279.7	45.9
250.6		-47.5		•	276.2	45.7
200		-59.0			262.2	\$ OG
175.		-53.0			253.4	P./5
150.		-57.7			249.0	54.9
125.		-60.5			253.2	5/.8
100.		-68.3			6.242	30.5
•09		-66.1			233.0	34.5
70.0	_	-63.0			229.6	10.4
•09	Ī	-62.6			252.1	11.8
20.0	0 b7939.	-58.5			27.5	£ . #

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

DATE